

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	157	(gas near5 (burn\$3 or combust\$3)) and ((inward\$3 with inject\$3) same concentric \$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 14:19
L2	6511	(gas near5 (burn\$3 or combust\$3)) same concentric \$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 14:22
S1	1	10/568119	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/04 08:13
S2	21	(prade, bernd)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/04 08:14
S3	32	(prade, bernd)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 08:15
S5	676	(431/8).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/04 09:12
S6	1	"3861330".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/04 09:40
S7	2	("20020182555"   "6237343"   "6237343").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/04 10:30
S8	72	(60/777).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/04 11:33
S9	349	(60/773).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/04 11:41
S10	2	(catalytic\$5 near4 (burn\$3 or combust\$3)) and (pre?react \$3 same (second\$3 near3 react\$3)) and ((swirl\$3 or vortex) near3 flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 12:21
S11	3	(catalytic\$5 near4 (burn\$3 or combust\$3)) and (pre?react \$3 same (second\$3 near3 react\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 12:22
S12	18379	(catalytic\$5 near4 (burn\$3 or combust\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 12:22
S13	62	(catalytic\$5 near4 (burn\$3 or combust\$3)) and (((swirl\$3 or vortex) near4 flow) with mixture)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 12:23

S14	1093	(catalytic\$5 near4 (burn\$3 or combust\$3)) and "431".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 12:27
S15	899	(catalytic\$5 near4 (burn\$3 or combust\$3)) and ("431".clas. and @pd<= "20030813")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 12:29
S16	1717	(catalytic\$5 near4 (burn\$3 or combust\$3)) and ("60".clas. and @pd<= "20030813")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 14:55
S17	11	(catalytic\$4 near4 (burn\$3 or combust\$3)) and (swirl\$3 with ((coat\$3 or layer) near4 catalyst))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/04 15:16
S18	552	(431/268).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 07:33
S19	520	(431/115).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 07:40
S20	524	(431/7).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 07:49
S21	368	(60/776).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 08:07
S22	20	("4040252"   "4047877"   "4118171"   "4432207"   "4433540"   "5000004"   "5431017"   "5452574"   "5623819"   "5626017"   "6070410"   "6073436").PN. OR ("6339925").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 08:12
S23	9	("3804163"   "5320089"   "5394862"   "5634784"   "5810577").PN. OR ("6048194").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 08:13
S24	40	("1278499"   "2498728"   "2720753"   "3846979"   "3943705").PN. OR ("4040252").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 08:13
S25	26	("2829494"   "2964907"   "3032991"   "3113885"   "3928961"   "4065917"   "4197700"   "4337028"   "4603547"   "4811555"   "5026273").PN. OR ("5355668").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 08:14

S26	27	("3056646"   "4714632"   "4822642"   "5183401"   "5202303"   "5232357"   "5248251"   "5250489"   "5258349"   "5259754"   "5281128"   "5326253"   "5405260"   "5425632"   "5466651"   "5476823"   "5509798"   "5629067"   "5823761").PN. OR ("6015285").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 08:15
S27	18	("4930454"   "5250489"   "5340020"   "5453003").PN. OR ("5634784").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 08:15
S28	76	("3914090"   "3928961"   "3940923"   "3982879"   "4019316"   "4047877"   "4065917"   "4197701").PN. OR ("4731989").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 08:16
S29	6	(catalytic near4 (burn\$3 or combust\$3)) and ((second\$3 near4 react\$3) with (vortex or swirl\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 08:18
S30	1	(catalytic\$3 near4 (burn\$3 or combust\$3)) and ((length with (dwell time)) same (pre? react\$3 near4 fuel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 08:21
S31	6	(catalytic near4 (burn\$3 or combust\$3)) same (vortex or swirl) same (flow near4 channel)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/30 12:25
S32	466	(431/11).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/30 12:26
S33	3	((flow\$3 near4 fuel) with catalytic) same (pre?react\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/11/18 10:12
S34	687	(431/170).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/18 10:28
S35	419	(431/326).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/18 10:46
S36	979	(502/304).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/18 10:56
S37	588	(502/303).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/18 11:15
S38	695	(502/339).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/18 11:21
S39	393	(431/116).ccls. and @pd<= "20030813"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/18 11:26

S40	33	(burn\$3 or combust\$3) and ((outer near5 wall) with (impart\$3 near5 swirl))	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 10:15
S41	13	(burn\$3 or combust\$3) same (swirl near5 rod)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 10:37
S42	13	("4429665"   "4930483"   "5044347"   "5048499"   "5059217"   "5307779"   "5451273"   "6032655"   "6205984").PN. OR ("6488016").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 10:38
S43	30	((swirl\$ near5 flow) with fuel) same (directed with inwardly)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 10:39
S44	43	(burn\$3 or combust\$3) and (swirl near5 rod)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 11:19
S45	581	(catalytic near4 (burn\$3 or combust\$3)) same (concentric \$3 or surround\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 11:57
S46	0	(catalytic near4 (burn\$3 or combust\$3)) same (surround \$3 by)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 11:57
S47	193	(catalytic near4 (burn\$3 or combust\$3)) with (concentric \$3 or surround\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 11:58
S48	8	(first with (catalytic near4 (burn\$3 or combust\$3))) with (surround\$3 near5 second)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 11:59
S49	6	("3421826").URPN.	USPAT	ADJ	ON	2011/04/22 12:11
S50	1	(swirl near5 vane) with (direct \$3 with (fuel near5 inward \$3))	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 12:16
S51	9	(swirl near5 vane) with (direct \$3 with (flow near5 inward \$3))	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 12:16
S52	1165	(cyclone same catalytic same (burn\$3 or combust\$3))	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 12:39
S53	49	(concentric with catalytic with (burn\$3 or combust\$3))	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 12:42
S54	1	"4692306".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 12:43
S55	7	(swirl near5 vane) with (catalytic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/22 12:57

### EAST Search History (Interference)

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